

**CM SH1-20**
**CM SH1-40**
**CM SH1-60**

**CM SH1-100**

**SCHOTTKY BARRIER RECTIFIER**  
**1.0 AMP, 20 THRU 100 VOLTS**


**SMB CASE**

# Central<sup>TM</sup>

Semiconductor Corp.

**FEATURES:**

- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- SPECIAL SELECTIONS AVAILABLE

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1.0 Amp Surface Mount Silicon Schottky Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

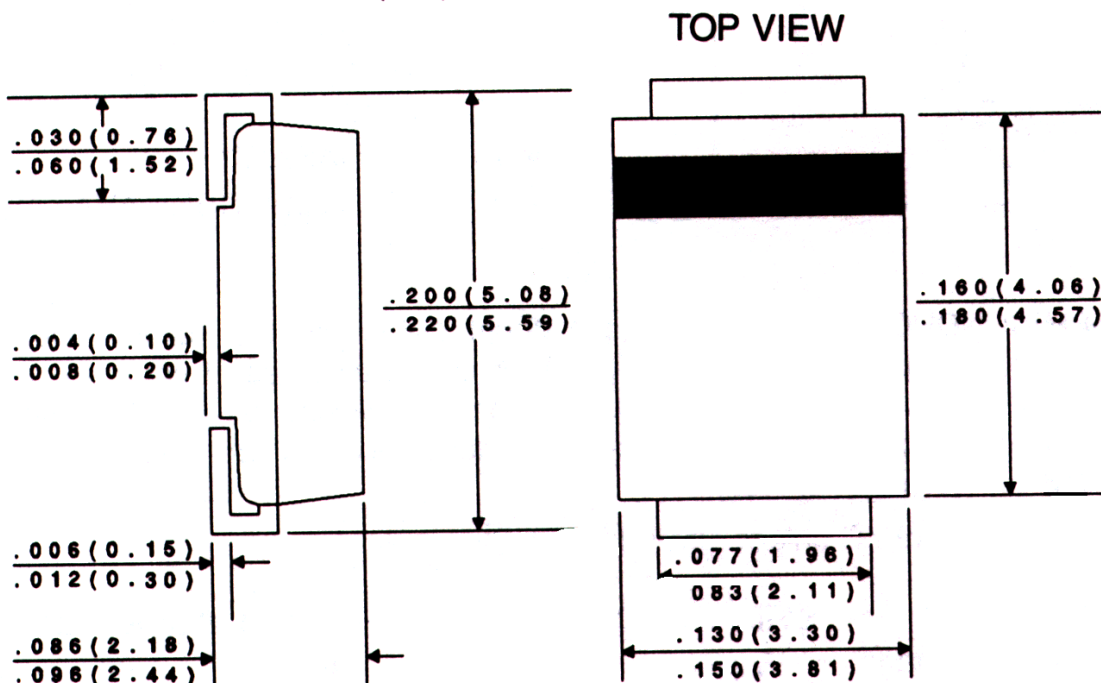
**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

		<b>CM SH1</b>	<b>CM SH1</b>	<b>CM SH1</b>	<b>CM SH1</b>	
	<b>SYMBOL</b>	<b>-20</b>	<b>-40</b>	<b>-60</b>	<b>-100</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	40	60	100	V
DC Blocking Voltage	$V_R$	20	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	42	70	V
Average Forward Current ( $T_A=75^{\circ}\text{C}$ )	$I_O$			1.0		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$			30		A
Operating and Storage						
Junction Temperature	$T_J, T_{stg}$		-65 to +150			$^{\circ}\text{C}$
Thermal Resistance	$\Theta_{JL}$		20			$^{\circ}\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>UNITS</b>
$V_F$	$I_F=1.0\text{A}$ (CM SH1-20 AND CM SH1-40)			0.55	V
$V_F$	$I_F=1.0\text{A}$ (CM SH1-60)			0.70	V
$V_F$	$I_F=1.0\text{A}$ (CM SH1-100)			0.85	V
$I_R$	$V_R=\text{Rated } V_{RRM}$			0.50	mA
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$			20	mA

All dimensions in inches (mm).



**Marking Codes:**

DEVICE	MARKING CODE
CMSH1-20	CS20
CMSH1-40	CS40
CMSH1-60	CS60
CMSH1-100	CS100